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Rivers and Streams Monitoring Networks		SWC	1	Continue to monitor and evaluate fixed chemical/physical and microbiological quality of freshwater streams and sediments, including the use of the redesigned Cooperative Ambient Surface Water Quality Monitoring Network and Regional Targeted Water Quality Networks; continue benthic Ambient Macroinvertebrate Network (AMNET) at rotating fixed stations; continue implementation of Northern and Southern Fish and Headwater Index of Biotic Integrity, Summer Bacti, at rotating fixed stations, statewide probabilistic and sentinel sites; continue monitoring for purposes of listing/delisting under CWA section 303(d). Continue a probabilistic network of 50 NJ stream sites which, to extent possible, will integrate physical/ chemical, biological, and habitat assessments. Results from this network will be used to provide statistically sound statewide estimates of water quality. National Reference Monitoring Network (EPA) National Water Quality Initiative (NWQI), EPA Continue enhanced Analytical Methods for Measuring Low Level Chromium-Hex and Mercury in Surface Water 2x/year at each site.	McGeorge, L.	Federal - PPG, and State CBT			
TMDL		SWC	7	Hammondon TMDL Monitoring: Collect ambient synoptic monitoring data necessary to establish TMDLs in selected waters in accordance with the MOA TMDL Schedule.	McGeorge, L., Schuster, B.	Federal - PPG			
SI		SWC	10	Conduct investigations at impaired biological monitoring sites to ascertain the probable sources and causes of the impaired condition. Collaborate with other water programs of the Department, and external partners utilizing a team approach to determine potential stressors.	McGeorge, L.	Federal - PPG and State CBT			
NARS		SWC	12	Participate in EPA National Aquatic Resource Surveys as resources allow. NCCA sampling will be initiated in FFY15. BMWM will be monitoring 26 sites in NJ's coastal estuaries during June through September. Monitoring will be conducted for water column chemistry, sediment (chemical and biological) and fish surveys. Survey packages will be completed as required. Wetlands NWCA CY 2016	McGeorge, L., Friedman, B., Walz, K.	Federal - Supplemental 106 Funding			
LAKES		SWC	14	Continue NJDEP Ambient Lakes Monitoring Network, re-designed to include probabalistic, reference, and targeted lakes. As part of network, conduct monitoring of cyanotoxins, with analysis performed in BFBM laboratory. Implement diatom index analysis.	McGeorge, L.	Federal – PPG & Supplemental 106 Funding (FFY12) - microcystin analyses			
		SWC	26	NJDEP will assist EPA in reporting NJ's accomplishments in meeting waterbody and watershed restoration goals, including SP-10 and SP-11. NJDEP will also assist EPA in setting targets for 2016 . By September 1, 2016 , NJDEP will provide EPA with a "crosswalk" of the listings/geographic areas in 2002 which comprise each delisted waterbody/pollutant combination in 2014.	Cenno, K.				
		SWC	36	Coordinate water monitoring and assessment activities to support departmental clean water objectives and water programs. Includes implementation of Long-Term Monitoring Program Strategy (and associated water indicators) in accordance with EPA Guidance "Elements of a State Water Monitoring and Assessment Program". As part of this process, identify the primary data and assessment gaps for subwatersheds listed as "unassessed" on the Integrated List. Report the gaps and progress made in filling them as part of the Long Term Monitoring and Assessment Strategy Annual Progress report.	Friedman, B.	Federal – PPG			
		SWC	37	Coordinate NJ–Water Monitoring Council with USGS, EPA and other NJ monitoring organizations. Includes 40 members from 19 monitoring organizations. Council holds 3 meetings/year and periodic statewide water monitoring summits.	McGeorge, L.	Federal - PPG and State CBT			
Database Maintenance: NJEMS/ PCS	Data Management	SWC -	43	Upload 1005-Wendb-DMR data elements for majors to PCS Monthly. Last extract sent to PCS in November 2012 for DMRs up through Sept 2012. Nothing since due to EPA HQ shutting down PCS. NJDEP will implement a NJDEP/EPA agreed upon action plan for the NPDES data entry/flow into ICIS-NPDES. In the interim, NJDEP will provide 100% Wendb DMR data elements for major facilities via reports available on the NJ Data Miner website.	Beym, T.	State – PPG Match			
Database Maintenance: NJEMS/ PCS	Data Management	SWC -	44	Manually enter NJPDES DSW permit actions into PCS. Nothing entered since November 30 shutdown of PCS. NJDEP will implement a NJDEP/EPA agreed upon action plan for the NPDES data entry/flow into ICIS-NPDES. In the interim, NJDEP will provide DSW permit information via reports available on the NJ Data Miner website and, for pretreatment, will email information to EPA as agreed. Once NJPDES data is flowing into ICIS, NJDEP will also input pretreatment audit information (including but not limited to audit dates, number of SIUs in significant non-compliance, number of SIUs without permits, etc...).	Collazo, J. Beym, T.	State – PPG Match			
Data Management		SWC	47	Enter DEP-generated ambient water quality data that has been QA'd and not entered into USGS' NWIS database into STORET/WQX data warehouse by June of the following year. Establish dissemination platform for short-term continuous deployments of various data sondes and loggers in freshwaters of the State.	McGeorge, L., Schuster, B.	Federal – PPG & Supplemental 106 Funding (FFY15)			

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		SWC	66	Establish TMDLs or take other appropriate actions to address all listed waterbody/ pollutant combinations with a goal of addressing each combination within 13 years of its original listing date. The two year schedule for addressing impairments, including TMDL development is posted for public comment along with the biennial "integrated Water Quality Monitoring and Assessment Report". NJDEP has posted the list of high priority waters in the July 2012 NJ Register and it consists of 50 pollutant-waterbody combinations, all in the Raritan River watershed. NJDEP will propose the Raritan TMDLs in the NJ Register, respond to comments and submit the Raritan TMDLs to EPA for approval by November-2014. EPA and NJDEP agree that mechanisms other than TMDLs may be used to address pollutants for some waterbodies. Criteria for choosing additional waterbodies for action include alignment with the State Strategic Plan. In 2015, DEP will propose TMDLs for the Salem and Saddle Rivers, with finalization in-2016. DEP will also identify the number of segments and pollutants associated with the Salem and Saddle Rivers TMDLs. For 2015, DEP will commence water sampling to support TMDL development in the Hammonton River with a goal of proposing a TMDL in 2016. For priority waters identified under EPA's 303(d) program measure (WQ-27), NJDEP will provide annual commitments for TMDLs, alternative restoration approaches, or protection plans for each federal fiscal year.	Cenno, K.	State- CBT			
		SWC	80	NJDEP will conduct a stakeholder process in 2015 to seek input on changes needed to the SWQS. NJDEP will propose changes to SWQS, as needed and resources allow, in 2016. Anticipated areas of change include recreational criteria consistent with the BEACH Act in all waters, freshwater ammonia and nutrient criteria and/or policies.	Cenno, K.	State - General Fund			
		SWC	81	Continue to implement the projects identified in the 20132 Nutrient Criteria Enhancement Plan (NCEP) and provide annual progress reports. Evaluate progress under the 2013 plan and revise the NCEP, as necessary, in 2016 including task completion updates and new tasks.	Cenno, K.	State - General Fund			
NJPDES Rules		SWC -	84	<del>As the 2008 updated CAFO rules can be implemented by reference under the existing authority of N.J.A.C. 7:14A-2.3(a), the Department has determined that it is not necessary to amend those rules to include additional specific provisions related to CAFOs at this time.</del>	Murphy, J	State – PPG Match			
Planning – 303(d) List		SWC	89	Submit to EPA the required elements under Sections 303(d) and 305(b) of the CWA by April 1st of even-numbered years. Assess water quality using all existing, and readily available data and information, and provide NJ's assessment results to EPA in a format compatible with the ATTAINS national data base. NJDEP shall keep EPA apprised of progress regarding the draft 2014 Section 303(d) and 305(b) required elements and expects to public notice them in the NJ Register on or about February 1, 2016.	Cenno, K.	State – General Fund			
NJPDES DSW Permitting		SWC -	107	Number and percent of facilities covered by DSW permits that are considered current. Goal for major DSW permit is no greater than 1525% backlogged during the time NJDEP is preparing for NJPDES data entry/flow into ICIS-NPDES. After NJPDES data is flowing into ICIS-NPDES, the goal for major DSW permits will be no greater than 15% backlogged, unless otherwise negotiated. NJDEP will continue efforts to further reduce the backlog of DSW minors. NJDEP will work with EPA in its efforts to attain the national goal of a 10% backlog for all NPDES permits.	Patterson, P	State – PPG Match			
		SWC	115	Determine the Natural Variability of Phosphorus Concentrations at Selected Diatom Sites: The primary objective of this project is to develop data to determine the natural variability of phosphorus and nutrients in relation to the variability in diatom communities. Data will be used, in conjunction with other available physical/ chemical and biological data to make informed decisions regarding the development of appropriate Surface Water Quality Standards for Total Phosphorus in NJ streams	Cenno, K., McGeorge, L., Schuster, B.	Federal - Supplemental 106 Funding (FFY14)			
Industrial Pretreatment		SWC -	121	Continue approval, modification and oversight of delegated pretreatment programs in accordance with N.J.A.C. 7:14A; continue to conduct audits in accordance with the protocol utilized in recent years and input results into PCS; continue issuance of SIU permits in non-delegated areas; and provide data in accordance with SWC 44.	Deutt, T-Kempel, N	State - PPG Match			
NJPDES Permitting		SWC -	123	Number and percent of priority NJPDES permits that are issued during the federal fiscal year. Number of priority permits to be issued shall be determined as the 80% of the 20% of the candidate list. Target number for FY2014 each State fiscal year to be determined by September 30th of that fiscal year. In no case shall the number of permits committed to exceed five per year.	Patterson, P.	State - PPG Match			
CSOs		SWC -	123.4	<del>NJDEP's goal is to issue the first draft individual CSO permit in early 2013 and to complete issuance of all draft permits by early 2014. Permits will include the nine minimum controls, and requirements for Long Term Control Plans. NJDEP will monitor CSO permittees progress toward meeting LTCP compliance due dates.</del>	Patterson, P.				
Statewide NPS Program		SWC	138	NJDEP will report into the Grants Reporting and Tracking System (GRTS) all projects selected for Section 319 grant funds (federal and state match). GRTS data entry will include, as applicable and appropriate, load reduction data for N, P and sediments. As required by Section 319, NJDEP will submit to EPA a statewide annual NPS report. Using a Watershed based approach, NJDEP will develop WQ-10 success stories for water bodies that were primarily non point source impaired and have been partially or fully restored. *Complete GRTS entry by 2/15/14, 2/15/15, 2/15/16 (for load reductions). *Submit annual NPS report by 11/1/14, 11/1/15, 11/1/16. *Complete 2 WQ-10 success stories by 7/30/14. *Complete 1 WQ-10 success story by 7/30/15. *Complete 1 WQ-10 success story by 7/30/16.	Cenno, K./Somboonlakana, D.	Federal PPG, 319 State-General Fund			
Characterization 305(b)		SWC	165	Provide the region with electronic final approved version using the assessment Database (ADB) version 2 or an ADB compatible spreadsheet. NJDEP will assist the Region and RTI with validation of assessment information, as necessary	Cenno, K.				
Fish IBI Development	Ambient & Facility Monitoring	SWC	188	Initiate collection of data necessary for statistical analysis, validation and implementation of Large Rivers Index of Biotic Integrity; continue collection of fish community data necessary for statistical analysis and validation of Southern Fish IBI in the outer coastal plain.	McGeorge, L.	Federal - Supplemental 106 Funding (FFY07-08 and FFY10)			
NJPDES Permitting		SWC -	188	NJDEP will update EPA on the status of expired/current NJPDES dischargers including the number of entitites covered by general permits for construction sites, industrial facilities, MS4s, and CAFOs.	Murphy, J. and Beym, T.	State - PPG Match			
NJPDES Permitting		SWC	189	NJDEP will work to eliminate the backlog of permits expired greater than 10 years.	Patterson, P.	State - PPG Match			

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NJPDES Permitting		SWC	New	NJDEP will continue to work with EPA to address mutually-agreed upon permit-related action items that have been identified by EPA or NJDEP. EPA and NDEP will meet in person or have a conference call quarterly if needed, but at a minimum of annually to discuss permitting issues. For FY2014, EPA and NJDEP shall meet no later than the end of the first quarter. EPA and NJDEP shall meet no later than the end of the first quarter of the State fiscal year for which discussions are appropriate.	Patterson, P and Murphy, J.				
NJPDES Permitting		SWC	New	NJDEP will establish e.coli limitations for newly issued permits, as appropriate for discharges to Freshwater and Enterococci for SE1 and SC waters, and SE2 and SE3 get Fecal limits.	Patterson, P				
NPS Pollution Control Projects in Estuarine Environments		SWC	193	\$371,482 of discretionary 319(h) funds implementing three major nonpoint source pollution control stormwater basin retrofit projects to reduce nutrients, total suspended solids and pathogen loads to the upper portions of Barnegat Bay.	Springer, G.	EPA FYY 2008 Discretionary Grant			
NPS Green Infrastructure Techniques		SWC	195	These funds were allocated to support green infrastructure projects within the Rockaway River watershed. A grant agreement with Rutgers University was executed to advance one of the many implementation measures in the approved watershed restoration and protection plan for the Rockaway River, as well as the TMDL for phosphorus in the non-tidal Passaic River Basin. This green infrastructure project was to demonstrate and document the effectiveness of green infrastructure techniques to control, manage and reduce wet weather associated nonpoint sources of pollution in a priority watershed(s) at the Rockaway Mall. The total grant amount: is \$381,715 and is matched in the amount of \$254,477 from state in-kind match and/or grants-in-aid to related projects and local government partners. Rutgers University (grantee) was able to take this project through the design phase. Unfortunately, due to organizational changes within the company that owns the Rockaway Mall, there remained little interest to continue moving forward with this project. The Department is in the process of reprogramming the remaining funds and applying them to the existing RP 10-106 grant account for Green Infrastructure Implementation Projects for the City of Newark, N.J. The Department executed Section 319(h) "City of Newark Stormwater Education/BMP's implementation Program to Control CSO Discharges" (\$200,000) on July 7, 2009. and is due to expire on July 4, 2013. -Rutgers has achieved great success working with the Newark School Districts and neighborhood communities in concert with the Greater Newark Conservancy and the New Jersey Tree Foundation and have performed exceptionally well in all areas of project management and implementation. This new project (WM14-034) will build upon this successful initiative with an expiration date of May 2016.	Springer, G.	EPA FYY 2009 Discretionary Grant			
Piloting Nutrient Assessment Method including Periphyton Speciation Monitoring in Southern NJ Rivers and Streams	Ambient & Facility Monitoring	SWC	197	Using a professional services contract for the identification and enumeration of periphytic lotic species, validate and enhance diatom index (TDI) and pilot the application of the index developed by the Philadelphia ANS. Continuing objectives are as follows: 1.) Samples to be collected by NJDEP staff at 25 - 40 stations from the southern NJ portion of the Ambient Surface Water Monitoring Network. 2.) Validation of northern inference model and BCG from the Northern NJ portion of the Ambient Surface Water Monitoring Network. 3.)Analyze applicability of Northern TDI and BCG to Coastal Plain Streams, and possible development of Coastal Plain TDI and BCG.	McGeorge, L., Cenno, K.	Federal - Supplemental 106 Funding (FFY09 and FFY10)			
Development of Sediment Diatom Impairment Index for NJ Lakes,	Ambient & Facility Monitoring	SWC	198	Using a professional services contract for the identification and enumeration of sediment lentic species from previously collected sediment samples, and new samples, and the use of said data to validate a NJ specific version of the index previously developed by the Philadelphia ANS. Continuing objectives are as follows: 1.) Validate nutrient inference model for NJ lakes above the fall line at eco-region scale. 2.) Development of similar inference model for Southern NJ Coastal Plain lakes at eco-region scale. 3.) Development of nutrient inference model for preexisting nutrient conditions using diatom assemblages from bottom layer sediment cores . Receive and review reports and data.	McGeorge, L., Cenno, K.	Federal - Supplemental 106 Funding (FFY09 and FFY10)			
Fish Tissue Monitoring	Ambient & Facility Monitoring	SWC	199	Continue the NJDEP fish tissue monitoring program. Sampling and analyses will be conducted on 10-20 targeted and/ or probabilistic sites in public lakes over 10 acres, and/or large rivers.	McGeorge, L., (WM&S), Buchanan, G. (OS)	Federal - Supplemental 106 Funding (FFY14)			
Trends		SWC	204	Using a professional services contract, continue work with USGS to develop long-term (30 year), chemical/physical water quality plots and trends information for approximately 30 stations in NJ's cooperative ambient rivers and streams monitoring network. Trends focus is on Nutrients and Phosphorus.	McGeorge, L.	Federal - Supplemental 106 Funding (FFY11 and FFY12)			
Enhanced Technology		SWC	205	Develop capacity for use of advanced freshwater monitoring technology (meters) for efficient production and transfer of water quality data (e.g., pH and conductivity) from NJ's rivers, streams and lakes. NARS (NRSA, NLA) and/or probabilistic/ statistical valid surveys including new projects and initiatives such as the new probabilistic component of the rivers and streams networks will utilize this technology. Continued upgrade monitoring equipment (multi-parameter meters) which will result in standardization of analytical results and minimization of transcription errors when entering data into databases. Enhance capacity of meters for measuring flow. Develop capacity for in-field electronic documentation and data upload of observations and field measurements. Develop capacity for short term continuous freshwater and coastal monitoring stations with telemetry and real time data.	McGeorge, L., Schuster, B.	Federal - Supplemental 106 Funding (FFY12/13, FFY14, FFY15)			
NPS Strategy		SWC	208	Update New Jersey's Nonpoint source management program plan. Milestone 1: Submit Draft Nonpoint source management plan to EPA by September 1, 2014. Milestone 2: Submit Final Nonpoint source management plan to EPA by December 1, 2014	Cenno, K.	Federal PPG, 319 State-General Fund			



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NPS Barnegat Bay Wetlands Assessment		SWC	209	A statewide uniform wetlands assessment and monitoring protocol will be developed, building upon an approach that the DNREC developed along with the Mid Atlantic Wetlands Work Group, which will also consider climate change and sea level rise adaptation. The project will be designed to provided assessments of those wetlands that are most functional and critical for restoration, protection and preservation thereby providing better long term permitting and restoration decision making. This project will be accomplished through a pass-through grant to Ocean County. Grant amount: \$150,000. This amount will be matched in the amount of \$100,000 from in-kind services and/or grants-in-aid by BBNEP and/or the Department.	Springer, G.	EPA FYY 2009 Discretionary Grant			
NPS Barnegat Bay Living Shoreline		SWC	210	<u>Barnegat Bay Living Shoreline:</u> NJDEP will assist in the recovery and future protection of water quality and natural resources in Barnegat Bay through the implementation of a high visibility living shoreline demonstration project in the Barnegat Bay watershed, in accordance with the April 22, 2013 EPA approved detailed workplan. Milestone 1: Completion of final design and permit application (December 2014). Milestone 2: Development of a public outreach plan (December 2014). Milestone 3: Implementation/construction of living shoreline (June 2016). Milestone 4: Public outreach plan implementation (June 2016).	Springer, G.	EPA FYY 2012 Discretionary Grant			
Living Shorelines to Restore Wetlands, Improve Water Quality and Engage Communities in Camden		SWC	211	NJDEP will use the CWA 319(h) Discretionary Funds to: a) Develop a living shoreline design for a specific location in Camden, New Jersey, where it is determined to have the greatest beneficial impacts on water quality, habitat quality, and coastal resiliency; b) build support for the implementation of climate resiliency techniques like living shorelines among community groups and local decision makers through project-related education/outreach; c) train and engage the local community in freshwater mussel monitoring and; d) quantify the contribution of endemic freshwater mussel populations in water quality improvements.	Springer, G. (DEP), Purdy, I, Drake, K. (EPA)	EPA FYY 2013 Discretionary Grant			
Nonpoint Source Management in the Barnegat Bay Watershed - Reducing Nutrient Pollution from Fertilizer and Reducing Watercraft Impacts		SWC	212	NJDEP will reduce nutrient pollution from fertilizer and reduce watercraft impacts: <i>Fertilizer Law Implementation and Outreach:</i> NJDEP will advance implementation of the NJ Fertilizer law by developing training materials to reach lawn care professionals who are required to be certified in order to apply fertilizer, in accordance with the March 2013 EPA approved workplan; <i>Reduce Watercraft Impacts to Ecologically Sensitive Areas:</i> NJDEP will incorporate the location information of the Ecologically Sensitive Areas on the NJ Division of Fish and Wildlife GPS Mobile App in such a way that the information will be easily accessible to boaters. NJDEP will further assess the Ecologically Sensitive Areas, including further verification of their locations and impacts of Hurricane Sandy, in accordance with the March 2013 EPA approved workplan. Remaining tasks: Complete Post-Sandy change assessment (Component 4) (December 2014); Complete Bayesian statistical modeling (Component 1) (August 2014); Complete pre vs. post data assessment (Component 3) (December 2014); Complete risk assessment (Component 2) (March 2015); Complete index development (Component 5) (April 2015); Complete Draft Project report (June 2015); Complete Final Project report (August 2015)	Springer, G.	EPA FYY 2012 Discretionary Grant			
Statewide NPS Program		SWC	213	NJDEP will assist EPA in reporting NJ's accomplishments in meeting waterbody and watershed restoration goals for SP-12. <i>(note: this was the former SWC-203 under Land Use Management)</i> Complete 1 SP-12 success story by 6/30/14	Cenno, K.	Federal PPG, 319 State-General Fund			
		SWC	216	Complete 1 additional SP-12 story by 6/30/15. In accordance with the December 23, 2014 EPA approved detailed workplan, NJDEP will implement two citizen science projects in the Barnegat Bay Watershed: a) Adult Community Engagement in Holiday City, Toms River, NJ and; b) Citizen Monitoring of Water Quality at the Barnegat Bay Partnership Brown's Woods Preserve in Toms River, NJ.	Friedman, B.	Discretionary 106 funds			
		SWC	217	Using a professional services contract, expand upon current reference lake monitoring efforts to determine reference lake conditions throughout the state's ecoregions. The primary objective of this project is to collect data necessary to assess detailed growing season water quality conditions within New Jersey reference lakes. The data will be used to characterize reference lake conditions in the ecoregions of the state for enhancing the current lake nutrient criteria	Cenno, K..	106 Supplemental Funds (FFY15)			
		SWC	218	Adequate statewide sample collection, analysis, and identification of Harmful Algal Blooms (HAB's) are needed to protect public and ecosystem health. Analyses can be enhanced by use of Flow thorough microscopy and qPCR. Public health protection is managed by ensuring marine bio toxins and toxin producing species are not present in shellfish harvest waters (NSSP requirement), protect bathers at beaches from contact with potentially toxic algae species, in both marine water (many species) and fresh waters (cyanobacteria), and to protect public water supplies from toxins produced by cyanobacteria. Ecosystem health is protected by identifying conditions and HAB's, that can impact dissolved oxygen; or directly impact marine organisms, such as hard clams that can be impacted by "Brown Tides" caused by the algae species <i>Aureococcus anophagefferens</i> .	Schuster, B.	State-General Fund, 106 Supplemental Funds (FFY15)			
<b>2.2.2: Improve Coastal and Ocean Waters</b>									
		SWC	25	Continue monitoring basic water chemistry in coastal and estuarine waters (nutrients, DO, salinity and chlorophyll) in bay and near-shore waters.	Schuster, B.	Federal -PPG, Supplemental 106 Funds (FFY15)			
Ocean Dissolved Oxygen Monitoring		SWC	192	Development of the capability for routine monitoring of dissolved oxygen, temperature and salinity in NJ's ocean waters through use of an automated underwater vehicle (glider) in cooperation with Rutgers University.	Schuster, B.	Discretionary (FFY14), Supplemental 106 (FFY10), EPA RARE (FFY09) and Regional Methods (FFY09) funding			
Coastal Water Quality Data System		SWC	200	Development of a data system to handle remote sensing, real-time and vessel-based coastal water quality data.	Schuster, B.	Federal - Supplemental 106 Funding (FFY09, FFY15)			

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Enhanced Remote Sensing of chlorophyll in NJ's coastal waters		SWC	201	Continue extension of time period for remote sensing flights, weekly, over NJ's coastal waters from March-May and Sept-Oct to expand surveillance for potential blooms	Schuster, B.	Federal - Supplemental 106 Funding (FFY09 and FFY10)			
Assess sediment toxicity--Barnegat Bay pilot		SWC	203	Using a professional services contract, assess sediment toxicity as a possible cause for aquatic life impacts. Pilot in Barnegat Bay.	Cenno, K.	Federal - Supplemental 106 Funding (FFY11 and FFY12/13)			
Enhanced Coastal Assessment		SWC	206	Enhance NJ's coastal assessment of marine (near shore) and estuarine waters using physical, chemical, and biological indicators and develop a tool (Report Card) to identify gaps and better communicate water quality status to decision makers, managers and the public.	Schuster, B.	Federal - Supplemental 106 Funding (FFY13, FFY15)			
Reduce Marine Debris		SWC	207	Purchase and install 11 - 15 bottle refilling stations for coastal state parks and urban parks along the Camden waterfront. Project will address the problem of disposable plastic water bottles entering tidal waterways and reduce marine debris.	Schuster, B.	Federal - 319(h) and PWSS			

Where Progress or Completion is Documented	Status/ Progress
BSDW and BWSE Monthly Reports	New Jersey is effectively implementing the Safe Drinking Water Regulations and has received primacy for all regulations, with the exception of the Revised Total Coliform Rule (RTCR), for which USEPA granted the Department a one year extension. DWSG is working to propose a rule and has requested another primacy extension. BSDW and BWSE continue to generate monthly reports.
DEP Annual Report	2015 Annual Report of Violations will sent to the USEPA Region 2 by August 15, 2016.
DEP Annual Report	New Jersey - EPA Region 2 Partnership Agreement was finalized on July 25, 2011. New Jersey has provided support as per agreement.
NJAC 5:23-3.15(a)1, and the National Plumbing Subcode/2000, 4.2.4	The reduction of Lead in Drinking Water Act became effective on January 2, 2014. On February 24, 2014 the Director of the NJ Department of Community Affairs Division of Codes and Standards sent a memo to all NJ Plumbing Subcode Officials directing them to begin enforcing the Act and listing appropriate websites for guidance. The National Standard Plumbing Code (NSPC) was amended accordingly in 2015 and on January 4, 2016 NJDCA adopted the NPSC by reference into the NJ Plumbing Subcode at N.J.A.C. 5:23-3.15.
Integrated Water Quality Monitoring & Assessment Report	Ongoing. Increase to 50/year will occur over several years: 30 in 2014 and 45 wells in 2015 and 2016. 2015 - 45 wells sampled (30 DEP, 15 USGS) 2016 through June - 21 wells sampled(6 DEP, 15 USGS)
Provide info to Ground Water Program for inclusion in UIC Annual Report	
NJPDES Permit Issuance	Permit issuance conducted as noted in Reports submitted in GWC-24 below.
Documentation sent to EPA.	Annual reports for FY12, 13, and 14 submitted 6/11/2015. Reports for FY15 and 16 to be completed and submitted by 10/30/2016.
Annual Shellfish Classification Charts, Growing Area Reports, BMWM Website ( <a href="http://www.nj.gov/dep/bmw/index.html">http://www.nj.gov/dep/bmw/index.html</a> ), STORET/WQX	1657 Stations were sampled from 2 to 10 per year for fecal coliform, data is assessed annually to update NJ shellfish water classifications. Over 13,000 samples were collected and analyzed each year, during this PPA.
Long Term Strategy Annual Progress Report and Annual Vibrio Management Plan. Primers, probes, and serotyping kits have been purchased and were used in FY14. PFGE Clean Room constructed. PFGE equipment on order. S106 enhancement funds requested for purchase of applied biosystems 7500 qPCR platform.	All purchase completed, equipment is being used for the analysis of vibrios, as part of annual studies used to protect public health and support NJ's Shellfish industry and the Bureau's annual Vibrio Management plan.
Storet, Biotoxin Contingency Plan, and monthly Phytoplankton Reports (June through October)	2015 Reports produced, Annual biotoxin contingency plan written and updated. Monitoring continues using aerial flights and routine boat sampling, as well as responding to calls of discolored water from the hotline.
Periodic summary reports; indicator. Data management - PC database.	Summary reports completed annually, project is on going, as areas are scheduled to be cleaned up each year.
Annual summary reports; indicator. Data management - STORET data warehouse.	Reports completed through 2015 season, 2016 Season is on going and started in May.
New BEACHES Database for NJ's Cooperative Coastal Monitoring Program is completed <a href="https://njbeaches.org/">https://njbeaches.org/</a> STORET/WQX	Completed, beach system is functional, and minor modifications are conducted based on needs or changes to beaches or criteria.

Integrated Water Quality Monitoring and Assessment Report, WM&S Webpage, STORET/WQX	Sampling of all networks completed as scheduled. Low level hexavalent chromium and mercury sampling now routine part of physical/chemical networks. Sampling of new probabilistic draw of 50 sites initiated in Nov., 2015. Sediment samples from 2010-2015 assessed using Remediation Screening Criteria. Completed calendar year 2015-June 2016 (all networks continuing): Ambient Surface Water Quality - 422 samples Regional Targeted/ Probabilistic - 404 samples AMNET - 197 samples FIBI - 52 samples HIBI - 7 samples Bacti - 478 samples NWQI - 54 samples NRM - 6 samples Completed metric recalibration for Northern Fish IBI and Headwaters IBI. Completed Biological Condition Gradient (BCG) for fish and amphibians in wadeable rivers north of the fall line.
NJ Register, Integrated Water Quality Monitoring and Assessment Report , STORET/WQX, DEP Website	Hammonton TMDL Monitoring Completed - 100 samples. Sampling in addition to original objectives currently being performed. Completed 2015 sampling, but results showed low concentrations of Total phosphorus, continuing sampling in the summer of 2016 to double check results, and ensure 2015 was not an anomaly due to dry weather
Individual project report, STORET/WQX	No sampling performed. A prototype report on previous SI studies has been completed and released. Reviewing approaches of other states, e.g. BioTMDL, to assess feasibility of implementing on a routine basis.
EPA Reports	All NARS commitments have been completed. NRSA - reviewed and provided feedback on 2007-08 Report. NRSA - 8 sites 2013-2014 NWCA - 2 sites through June 2016
Individual Project Reports STORET/WQX, WM&S Website	Calendar Year 2015 - June 2016: Lakes - Sampling completed -124 samples Redesign of network completed and implemented. Cyanotoxin analysis implemented. Diatom assessment development completed; assessing feasibility of implementation through a 2015 Monitoring Initiative Project. Sampling of Project will be completed in 2016; results anticipated in spring 2017.
A separate report for the "crosswalk."	The crosswalk will be submitted to EPA in December 2016.
Long Term Strategy Annual Progress Report.	Update to Long Term Strategy in preparation. Meetings held with both DEP data providers and/or users (6/11/15) and the NJ Water Monitoring Council (8/15/15) to provide draft information, solicit feedback on monitoring and assessment gaps/enhancements, as well as seek potential partnership opportunities. Document is currently undergoing DWM&S management review.
NEPPS Annual Performance Report and NJWMC Webpage	Ongoing. All Council-related commitments were met. Meetings 3X/year - during SFY16, meetings were held 9/23/15, 1/21/16 and 5/19/16 and focused on Cyanobacterial Harmful Algal Blooms/Cyano toxins/other HABs, Contaminants of Emerging Concern, and Wetlands Monitoring. Agendas & meeting minutes are available at: <a href="http://www.nj.gov/dep/wms/wmcchome.html">http://www.nj.gov/dep/wms/wmcchome.html</a> . In addition, there is ongoing electronic information exchange among members throughout the year.
PCS ICIS and NJDEP Data Miner website	Implementation of the action plan is in progress. Target completion date for Phases I, II and IV is December 2016 which will complete the migration of NJDEP's NPDES data to the EPA ICIS-NPDES system. At that point, NJDEP will continue to send updated NPDES information to the ICIS-NPDES system.
PCS ICIS and NJDEP Data Miner website	See 43. Additionally, Pretreatment information has been emailed as agreed.
STORET/WQX data warehouse	Ongoing. All data submitted on schedule. Dissemination platform for short-term continuous data completed and implemented. 132,000 freshwater data points entered to date. A website has been developed for the data sonde data dissemination, all BMWM data has been updated and submitted to Storet through June of 2016.



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Individual Project Reports	Raritan TMDL approved by EPA on May 9, 2016 and adopted by NJDEP on May 24, 2016. Saddle and Salem TMDLs have been deferred to 2017. Hammonton monitoring to begin 2017. Under the new WQ 27 measure, 79 assessment units were identified and submitted to EPA on June 29, 2015. In April 2016 a revised list of 77 assessment units were submitted to EPA. EPA Raritan approval letter for 45 combinations of pollutant/waterbody impairments as TMDLs and 1 impairment addressed as an alternative restoration control in part fulfills 46 WQ 27 commitments.
New Jersey Register	SWQS Stakeholder meetings held on April 15, 2015 and December 8, 2015. NJDEP per EPA agreement/triennial review will include freshwater ammonia nutrient criteria, recreational criteria consistent with BEACH Act waters and will propose variance language consistent w/EPA guidance. Rule proposal slated for 2017.
Nutrient Criteria Enhancement Plan annual progress reports and Long Term Strategy Annual Progress Report	Nutrient Criteria Enhancement Plan is undergoing a complete update from 2013 version and a draft will be ready Fall 2016. Of the 20 projects identified in the 2013 Plan, 6 are complete, 10 are ongoing and 3 have not yet been initiated.
New Jersey Register	No Action
2012 Integrated Water Quality Monitoring and Assessment Report.	The final 2012 303(d) List and 305(b) report were submitted to EPA on July 30, 2014 and approved on September 25, 2014. Proposed 2014 303(d) List and 305(b) report were submitted to EPA in January 2016 with expected formal submittal to EPA December 2016.
NJPDES Permit Issuance	On-track and anticipate meeting goal
STORET/WQX data warehouse, Long Term Monitoring Strategy Progress Reports, SWQS	Project is ongoing but has been delayed due to weather. Sampling commenced in 2015 anticipated completion summer 2016. Diatom ID and assessment by contractor to be completed April 2017. The variability analysis of diatoms/nutrients to help develop appropriate duration for TP criteria to be completed by December 2017. All chemical data will be uploaded into STORET by January 2017.
Other	Approval, modification, oversight and audits of delegated pretreatment programs has continued as agreed. SIU permits have been issued in non-delegated areas; data is available as noted in SWC 43 and 44.
	On-track to meet goal.
	On track to meet goal.
GRTS entries made directly to GRTS. Success stories are individual reports.	All required reporting was formally transmitted to EPA and is up to date.
Provide information to EPA by April 1st of odd-numbered years.	All requested information was formally transmitted to EPA in July 2014.
Individual project reports and/or WM&S webpage	Projects initiated. Ongoing. Calendar Year 2014 - 2015: 7 sites sampled
PCS Email Communications	Ongoing. Report is sent quarterly.
NJPDES Permit Issuance	On-track to meet, one left, expect to issue it later this year

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	BNPC:Meetings held with EPA Region 2 on 2/11/2015; 3/3/2016; 4/11/2016; 6/1/2016; 7/27/2016. Next planned meeting is on 11/1/2016. BSWP: Participated with EPA in Permit Quality Review 5/31/2016 and 6/1 /2016
	Being done, as permits renewed e.coli/enterococci limits put in
Quarterly reports by grant recipient and deliverables.	Contract was awarded to Ocean County Planning. Hurricane Sandy attributed to delays with project implementation and multiple extensions granted. Last extension was a budget modification and NCTE to allow for Ocean County Engineers office to complete the work required to finish the remaining basin retrofits. Problems with obtaining plant material in the spring has resulted in the need to extend the grant into the fall beyond the current July 17, 2016 expiration date.
Quarterly reports by grant recipient and project deliverables.	To date, only \$143,593.43 of the original \$312,517.85 reallocated to this grant have been expended. A no cost time extension (NCTE) and budget modification to facilitate the use of the remaining grant balance to construct a Green Roof over the Newark Educators Charter School building has been submitted.
Project report, Nutrient Criteria Enhancement Plan progress reports and Long Term Monitoring Strategy Progress reports.	Diatom assessment development completed; reports received from the Academy of Natural Sciences: - <i>HOF analysis of diatom taxa with BCG attributes Highlands and Northern Piedmont</i> - <i>Biological Condition Gradient (BCG) Assessment Models for Diatom Communities of Upland Streams in New Jersey</i> - <i>Periphyton Diatom Assemblages in Southern New Jersey Streams: Pilot Project</i>
Project report and Nutrient Criteria Enhancement Plan and Long Term Monitoring Strategy progress reports	Diatom assessment development completed; reports received from Academy of Natural Sciences: <i>Nutrient Reference Conditions in New Jersey Lakes Based on Analysis of Sediment Cores</i> . Assessing feasibility of implementation through a 2015 Monitoring Initiative Project. Sampling of Project will be completed in 2016; results anticipated in spring 2017.
Raw data in to STORET/WQX data warehouse	Initiated regional fixed (PCB's, Hg, and emerging contaminants) and probabilistic (Hg only) network in 2016. Calendar Year 2015 - June 2016 Fish Tissue - 41 samples
	The Nutrient Trends USGS report draft has been received and reviewed , and a final is expected to be published as a open-file report and available from the USGS Publications Warehouse in fall 2016.
	All new technology requested using Monitoring Initiative Funds has been purchased. These include flow meters, continuous monitoring sondes, and multi-probe field meters.
Individual Report	The final "New Jersey Nonpoint Source Management Program Plan 2015-2019" was submitted to and approved by EPA in December 2015.

Grant Agreement executed in June 2010. Milestone 1: By December 31, 2010, describe the selected sites and complete installation of the SET's in Barnegat Bay Milestone 2: By December 31, 2010, complete the QAPP. Milestone 3: By June 30, 2011, conduct initial monitoring. A report summarizing the data collected during the 2011 monitoring season was received by the Department. Monitoring continued for the 2013 monitoring season. A report summarizing 2013 monitoring activities was received at the end of the monitoring season.	Completed
Quarterly reports by grant recipient and deliverables	All the state and federal permits for the living shoreline and park restoration have been issued. County is currently bidding the project. Contract currently resides in the State Attorney General's office for final review and approval.
Quarterly reports by grant recipient and deliverables.	Ongoing. PDE analyzing data to characterize mussel habitat and inform project design. PDE to engage consultant on living shoreline design.
Quarterly reports by grant recipient and deliverables	Both projects have been completed. Minor paperwork required to effectuate final payments and close out contracts is still ongoing.
SP-12 success stories	All required reporting was formally transmitted to EPA and is up to date.
STORET/WQX data warehouse	Contracts are complete and work has begun as delineated in the EPA Approved Workplan.
STORET/WQX data warehouse, Nutrient Criteria Enhancement Plan, Integrated Water Quality Monitoring & Assessment Report	Contractor has been engaged as of May 2016 and initiated sampling in June 2016 and is currently collecting samples as delineated in the Workplan. Sampling will be completed by the end of September 2016.
Storet, Biotoxin Contingency Plan, and monthly Phytoplankton Reports (June through October)	Purchase, set up and operation of the flow-through microscope completed. Ongoing part of monitoring program.
Integrated Water Quality Monitoring and Assessment Report, STORET/WQX	Completed for this PPA ,now perform monthly sampling from 42 stations that are selected by probabilistic sampling design, added organic carbon and alkalinity. Continuing project.
Individual project reports and data entered STORET data warehouse.	Completed for this PPA, now fund 3 deployments each summer using State funds.
NJDEP/Rutgers Air Craft Remote Sensing web page has been developed. New web site for data access to others in progress. Completed 3 deployments in FY14, and 3 more are scheduled for FY15 using NJDEP funding.	Completed, data system is operational, including real time applications and archived data retrieval.

www.nj.gov/dep/bmw	Completed, flights start earlier, and extend later in the fall, now part of our routine on going flights.
Project report upon completion	"Characterization of Selected Bed-Sediment-Bound Organic and Inorganic Contaminants and Toxicity, Barnegat Bay and Major Tributaries, New Jersey, 2012 " was published by USGS in 2014
	Report card Not completed, funding for this was reallocated with EPA approval for other projects. Near shore biological samples were collected from 30 sites and results are being compared to a Benthic index and samples collected during 2007,2009, and 2010 to evaluate the biological health of the near shore waters.
Report to EPA	Locations and equipment needed have been selected for installation of the bottle refilling stations. Purchase is planned and allocated in the new PPA.